

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/012860

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B01J23/22 B01J23/10 B01D53/94

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B01J B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 787 521 A (EBARA CORP ; MITSUBISHI CHEM CORP (JP)) 6 August 1997 (1997-08-06) abstract examples 1-3 tables 3,4	1-11
Y	-----	2,3,8,9
X	US 4 221 768 A (INOUE AKIRA ET AL) 9 September 1980 (1980-09-09) column 2, line 31 - line 36 examples 1,27 table 6 claim 1	1-11
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

Date of mailing of the international search report

3 January 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	GB 1 430 730 A (MITSUBISHI CHEM IND) 7 April 1976 (1976-04-07) page 1, line 50 – line 68 page 2, line 11 – line 39 sentence 84 – sentence 124 examples 1-3,12 claims	1-11
Y	-----	2,3,8,9
X	GB 2 149 680 A (NIPPON CATALYTIC CHEM IND) 19 June 1985 (1985-06-19) page 1, line 23 – line 24 example 16 claim 1	1-11
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Y	PATENT ABSTRACTS OF JAPAN vol. 0030, no. 75 (C-050), 27 June 1979 (1979-06-27) & JP 54 052691 A (NIPPON STEEL CORP), 25 April 1979 (1979-04-25) abstract	2,3,8,9
A	US 4 719 192 A (SCHNEIDER MICHAEL ET AL) 12 January 1988 (1988-01-12) abstract column 4, line 27 – line 67 claims 1,7,9	1-11
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) & JP 11 216361 A (TOSHIBA CORP), 10 August 1999 (1999-08-10) abstract	1-11
A	US 5 300 472 A (BRAND REINHOLD ET AL) 5 April 1994 (1994-04-05) example 29 abstract	1,5-7, 10,11

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